



INDUSTRIAL/MACHINE VISION APPLICATIONS

FLIR ORYX[®]

P/N: ORX-10GS-89S6

ULTRA-HIGH RESOLUTION

The award winning Oryx 10GigE camera family allows systems designers to take advantage of the latest sensors by supporting transfer speeds up to 10Gbit/s enabling the capture of 4K resolution, 12-bit images at over 60FPS. Oryx's 10GBASE-T interface is a proven and widely deployed standard that provides reliable image transfer at cable lengths over 50 meters on inexpensive CAT6A, or greater than 30 m on CAT5e. On-camera features including IEEE1588 clock synchronization and full compatibility with popular third-party software supporting GigE Vision, gives system designers the tools to quickly develop innovative solutions.

www.flir.com/products/oryx-10gige

FEATURES

HIGH RESOLUTION SENSOR ON HIGH SPEED INTERFACE

Increase throughput by capturing 12.3 MP Global Shutter images at 68 FPS

RELIABILITY AND SIMPLICITY

10GBASE-T interface supports cables over 60m and makes multi-camera system set-up easy

FLEXIBILITY FOR INTEGRATORS

Develop innovative solutions quickly with GigE Vision compatibility and advanced on-camera features

APPLICATIONS

SPORTS ANALYTICS AND MOTION TRACKING

AUTOMATED OPTICAL INSPECTION

RESEARCH

LARGE VOLUME 3D SCANNING

BROADCAST + VR



SPECIFICATIONS

| SPECS | ORX-10GS-89S6M-C | ORX-10GS-89S6C-C |
|-------------------------------|--|---|
| Resolution | 4096 x 2160 | |
| Frame Rate | 93 FPS | |
| Megapixels | 8.9 MP | |
| Chroma | Mono | Color |
| Sensor | Sony IMX255, CMOS, 1" | |
| Readout Method | Global shutter | |
| Pixel Size | 3.45 µm | |
| Lens Mount | C-mount | |
| ADC | 8-bit, 10-bit, and 12-bit | |
| Minimum Frame Rate* | 1 FPS | |
| Gain Range* | 0 to 47 dB | |
| Exposure Range* | 5 µs to 30 s | |
| Acquisition Modes | Continuous, Single Frame, Multi Frame | |
| Partial Image Modes | Pixel binning, ROI | |
| Image Processing | Gamma, lookup table, and sharpness | Color correction matrix, gamma, lookup table, saturation, and sharpness |
| Sequencer | Up to 8 sets using 2 features | |
| Image Buffer | 240 MB | |
| User Sets | 2 user configuration sets for custom camera settings | |
| Flash Memory | 4 MB non-volatile memory | |
| Opto-isolated I/O | 2 input, 2 output | |
| Non-isolated I/O | 2 bi-directional | |
| Serial Port | 1 (over non-isolated I/O) | |
| Auxiliary Output | 3.3 V, 120 mA maximum | |
| Interface | 10GigE | |
| Power Requirements | Externally powered over GPIO (12 - 24 V) | |
| Power Consumption | 12.6 W maximum (12.3 W nominal) | |
| Dimensions/Mass | 60 mm x 60 mm x 64 mm / 386 g | |
| Machine Vision Standard | GigE Vision | |
| Time Synchronization Protocol | IEEE 1588 Precision Time Protocol | |
| Compliance | CE, FCC, RoHS, REACH. The ECCN for this product is: EAR099. | |
| Temperature | Operating: 0°C to 70°C (case) Storage: -30°C to 60°C (ambient) | |
| Humidity | Operating: 20% to 80% (no condensation) Storage: 30% to 95% (no condensation) | |
| Warranty | 3 years | |

*Ranges are the same in binning and no binning modes.

FLIR Integrated Imaging Solutions

CANADA

12051 Riverside Way
Richmond, BC, Canada
V6W 1K7
T: +1 866.765.0827 (toll free)
T: +1 604.242.9937
F: +1 604.242.9938
E: mv-sales@flir.com

USA

T: +1 866.765.0827 (toll free)
E: mv-na-sales@flir.com

www.flir.com/mv

EUROPE

T: +49 7141 488817-0
F: +49 7141 488817-99
E: mv-eusales@flir.com

CHINA

T: +86 10 8215 9938
F: +86 10 8215 9936
E: mv-chinasales@flir.com

ASIA

E: mv-asiasales@flir.com

www.flir.com
NASDAQ: FLIR

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FOR YOUR NEEDS



The World's Sixth Sense®